Elementary GLOBE

David Bydlowski, Kristie Massey, Amie Smith, and Brad Smith "Super Science for Super Teachers — Continuing Changing the Equation (S3T-C2tE) — Partnership between Madonna University, Lawrence Technological University and the Michigan Department of Education

Presentation Objectives

- I can become a teacher in the GLOBE Program
- I can access all of the Elementary GLOBE materials, online.
- I can get training online to utilize the Elementary GLOBE materials and become a certified GLOBE Teacher

The GLOBE Program

The Global Learning and Observations to Benefit the Environment (GLOBE) program is a worldwide hands-on, primary and secondary school-based science and education program.

http://globe.gov



Join the GLOBE Program Today

Create a Teacher account by visiting http://globe.gov go to the menu bar and "Join"



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Welcome to GLOBE

The Global Learning and Observations to Benefit the Environment (GLOBE) program is a worldwide hands-on, primary and secondary school-based science and education program.

Learn More about GLOBE ▶



New to GLOBE?



GLOBE Community

See Members

Schools:

8.132

Teachers:

Total Measurements: 127,454,192

Measurements This Month: 160,196

Enter Live Data -

Enter Training Data •

Collaboration Groups

Recent Postings In: Community Feedback Forum

RE: Phenology data entry - add a new plant

Natalie - sorry it's taken so long to get back to you...and thanks for reposting. I believe we have everything we need to add this to the database. We'll plan or>>>

View All Groups



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Teachers

Start Here

Create An Account

Do GLOBE Today



Become a GLOBE Teacher

Science educators and citizen scientists around the world become involved with GLOBE by attending a Teacher Training Workshop where they receive professional development on the implementation of GLOBE pedagogical models for inquiry-based research and the use of GLOBE protocols to answer scientific research questions. Once teachers have attended a GLOBE training event or completed GLOBE E-Teacher certification, they are provided with the knowledge and tools to implement GLOBE Protocols and learning activities in a classroom setting, work with their students to make data observations, and report these observations to the GLOBE website via an assigned Sign In identification. Training workshops are listed online.

Create a GLOBE Teacher Account

Contact Me for more Information

Find a U.S. Partner or Country Coordinator implementing GLOBE in my Country

Find GLOBE Schools in my Country



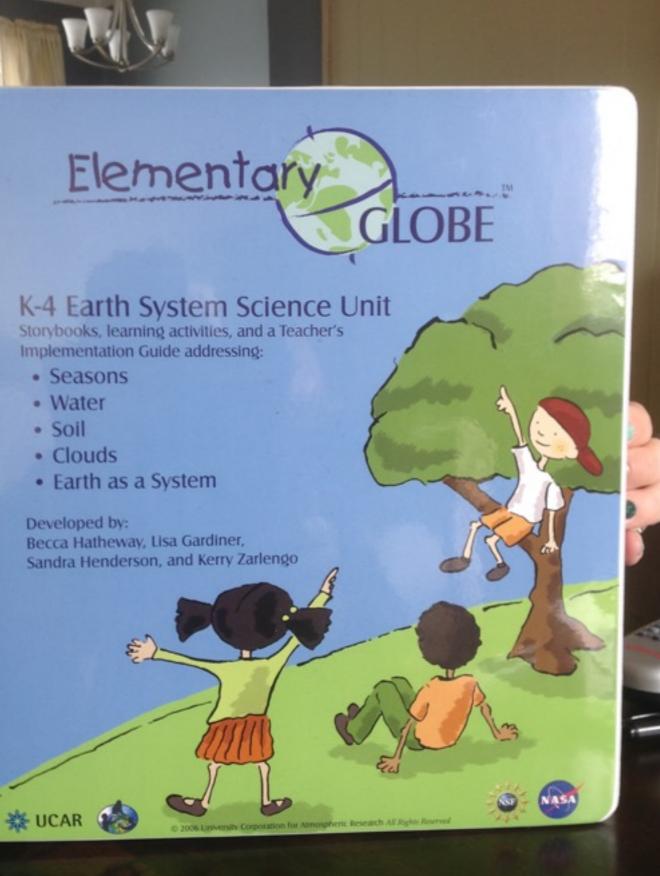
English ‡ Log Out

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Search **Teachers** Start Here **Create a GLOBE Teacher Account** Request to become a GLOBE Teacher by creating an account. Create An Account Filling out the form below gives you access to register for a Teacher Training Workshop. Do GLOBE Today Once trained, your GLOBE Teacher account will allow you to report data to the database and post to discussion boards with teachers just like you around the world. Prior to training, you have access to all the resources within the GLOBE website. Create your account now to start your students' path of exploration, discovery and investigation of the Earth. * Required fields *First Name *Last Name *Email *Gender Select a Gender \$ *Country Select a Country

Elementary GLOBE

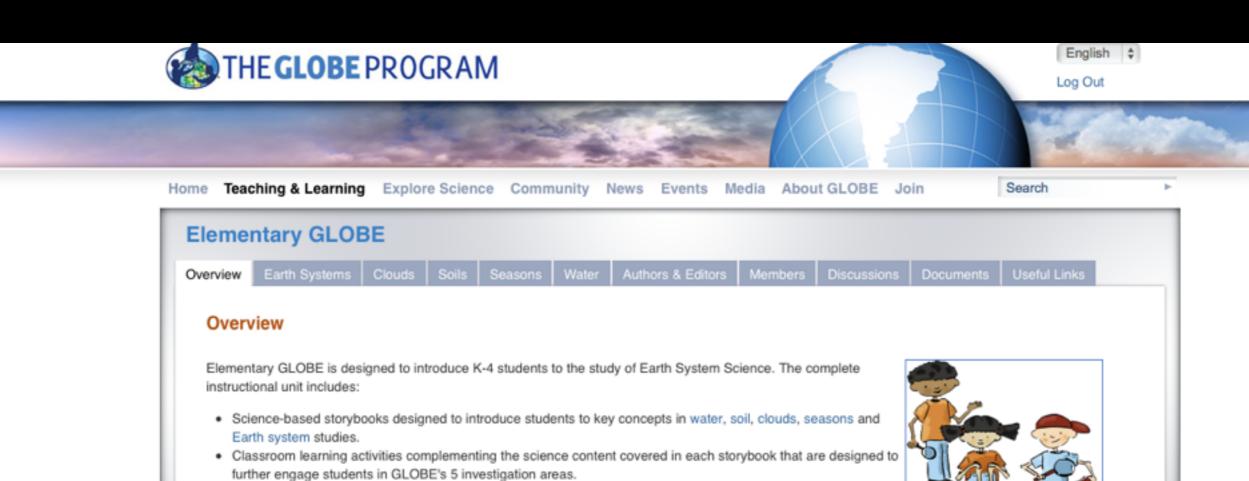
K-4 Earth System Science Unit



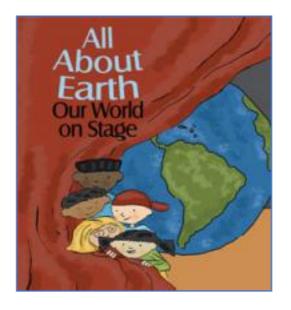
You can pay \$49 or get it for FREE

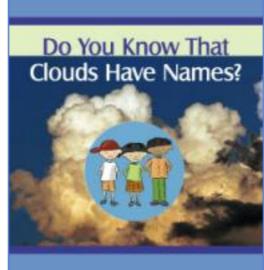
Get it right now!!!!!

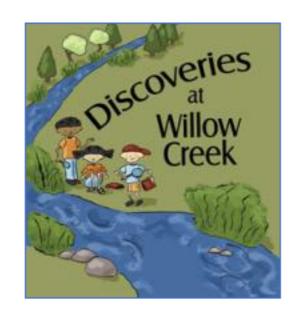
http://www.globe.gov/web/elementary-globe

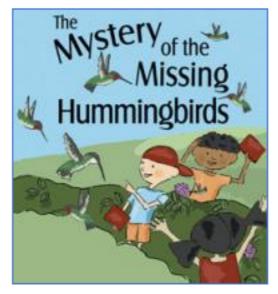


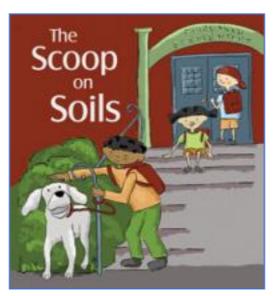
GLOBE makes every effort to provide translations of our materials in the 6 official U.N. languages (Arabic, Chinese,
English, French, Russian, and Spanish). Currently, Arabic, English, French, German, and Spanish translations of
Elementary GLOBE books and teacher's guide are available on the web site. If you would like to assist us in adding your language to this list please contact us at elementaryglobe@globe.gov.













Implementation Guide

Connections to Literacy
Connections to Science and Literacy
Vocabulary Development
Reading Comprehension
Journaling
Science Inquiry

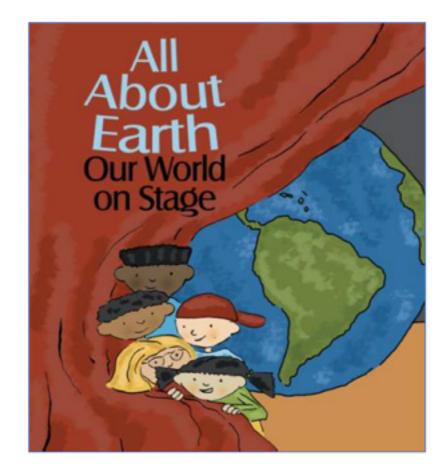
Earth Systems Story Book

Story Book

Learning Activities

Teacher Implementation Guide

Printing Tips



Join Simon, Anita, Emily and the rest of Ms. Patel's class as they gain an understanding of how the Earth works as a system while preparing their end of the school year play.

Download the Earth System Module storybook and learning activities! All files require the free Adobe Acrobat Reader.

Language	Web	Print
English	3.1MB	38.8MB
Français	3.1MB	
العربية	5.2MB	
Deutsch	3.1MB	31.5MB
Español	3.1MB	38.8MB

"Simon, your role is to represent water," said Ms. Patel. "Please tell us about why water is an important part of the Earth system."

"OK. I am water, and nothing on Earth can live without me," Simon

stated, as he walked to
the center of the stage. "I
fall from the sky as rain
and help plants grow.
Animals drink me. I help
break down materials to
make soil. I form clouds
and help keep the Earth
cool. Besides being
rain, I am also snow,
hall, and sleet, and I
can be found in oceans,
lakes, rivers, and other
waterways. When I freeze, I
become Ice."

"Simón, tu representas al agua", dijo la señorita Patel. "Por favor, dinos por qué el agua es la parte Importante del sistema de la Tierra".

"OK. Yo soy el agua y nada en la

Tlerra puede vivir sin mi
existencia", dijo Simón,
a medida que caminaba
hacia el centro del
escenario. "Calgo del
cielo en forma de lluvia
y ayudo a las plantas
a crecer. Los animales
me beben. Ayudo a
separar los materiales
que forman los
suelos. Doy origen

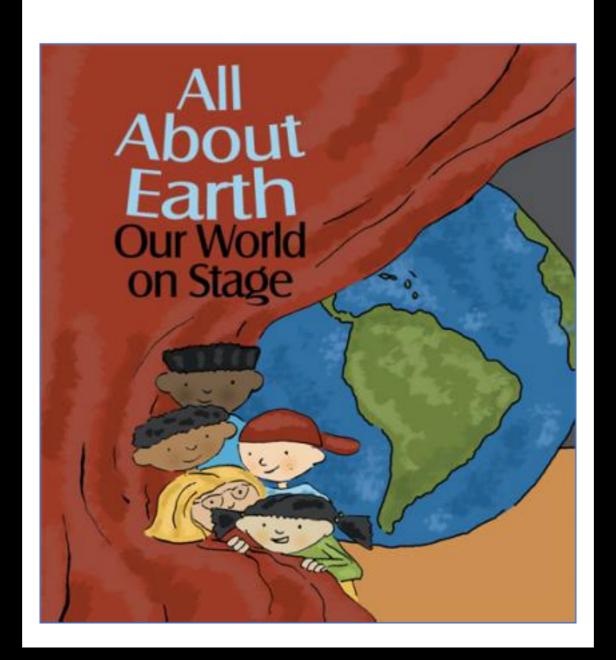
a las nubes y ayudo a refrescar a la Tierra. Además de ser lluvia, también soy nieve, granizo y aguanieve; me encuentro en los océanos, lagos, ríos y otras fuentes marinas. Cuando me congelo me

convierto en hielo".

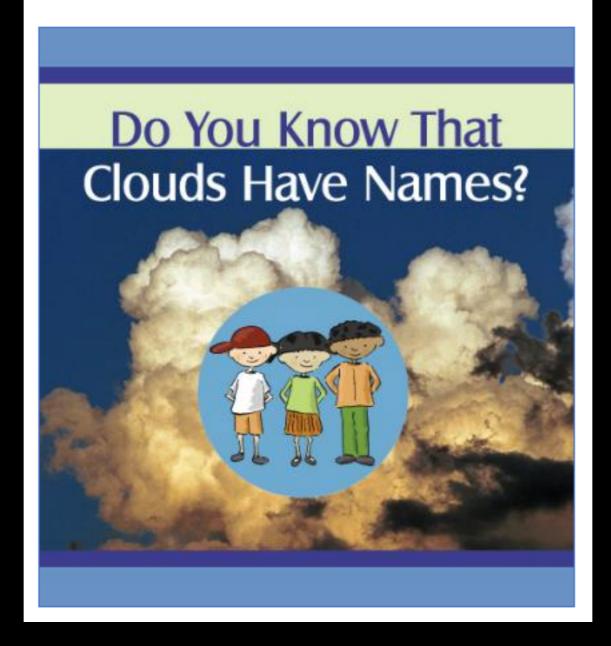
200

Web Version or Print Version of the Books (with Printing Tips) Now... Let's Take a Listen

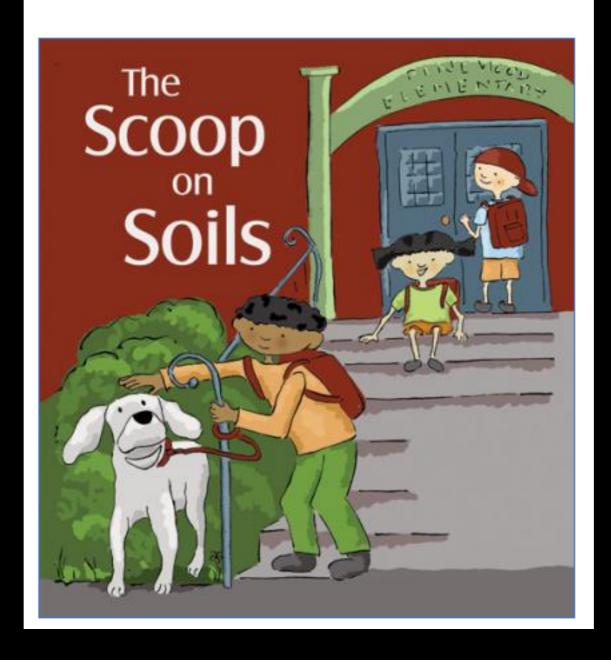
Earth Systems Story Book



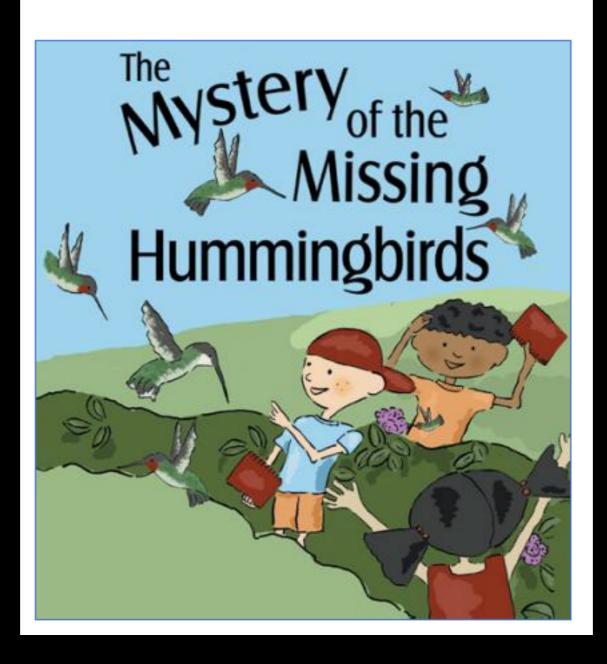
Clouds Story Book



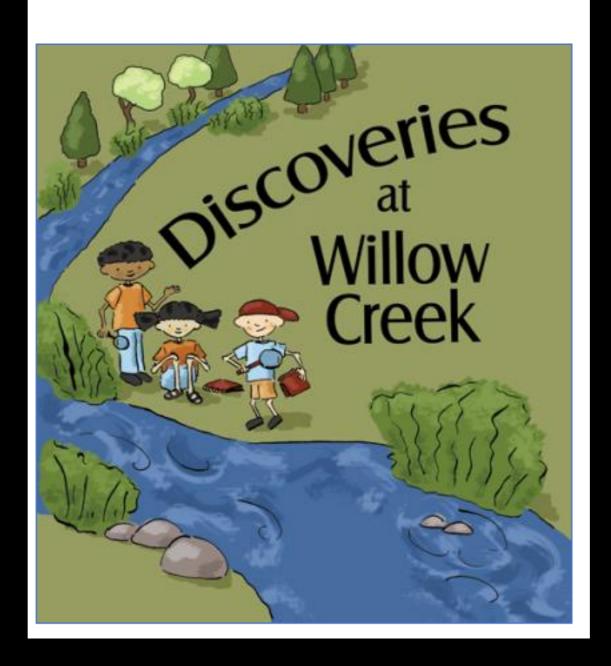
Soil Story Book



Seasons Story Book



Water Story Book



Learning Activites

3 Activities for Every Book
Available in Four Languages
Adaptations for older and younger students (differentiation)
Further investigations — Extend the lesson

Earth System in a Bottle Recipe Card

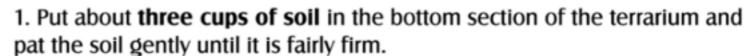
Earth System in a Bottle Recipe

Each group will make two terrariums. All groups will make a terrarium that has all of the parts of the Earth's systems. Then each group will make a second terrarium that is missing one part of the Earth's systems.



Earth System in a Bottle







- 2. Add about a **quarter cup of water** and look at the soil from the side to make sure that all of the soil gets wet. If there's still dry soil, add more water.
- 3. Drop **4-5 radish seeds** onto the surface of the soil. Use your fingertip to push the seeds just below the soil surface. Sprinkle a little more soil on top of the seeds just to cover them.



4. Place the top section of the terrarium on top, pushing alternate flaps to the inside and outside so that it fits securely. Make sure the lip/top is still on the bottle.

I've circled the part of the Earth system that it belongs to below.

It connects these parts of the Earth system.

Draw arrows ←→ to show the connections!











Sun Plants Animals Costumes can be as simple or elaborate as time and money afford and student schedules and curriculum needs dictate. Students may dress in their regular clothes in colors appropriate for their



The GLOBE Program

Earth System Play - Page 4

All About Earth

Q and A

Let's Give Some Learning Activities a Try!

"Cloud Fun"

https://www.youtube.com/watch?v=7T6ajektICA

https://www.youtube.com/watch?v=PiSkyAQEDg0

"CloudScape"

https://www.youtube.com/watch?v=CUzE6qp83cY

"To Spread or Not"

Training

Elementary GLOBE Resources Participate in a workshop, e-Training or Web Tutorials

Elementary GLOBE Wiki

http://cmase.pbworks.com/w/page/6923142/Elementary%20GLOBE

Elementary GLOBE

Elementary GLOBE poster.pptx Elementary GLOBE Clipboard Instructions

Activities

- Elementary GLOBE
 - Teacher's Implementation Guide
 - Modules:
 - All About Earth: Our World On Stage
 - Discoveries at Willow Creek
 - Do You Know That Clouds Have Names?
 - Mystery of the Missing Hummingbirds
 - The Scoop on Soils

Pertinent Links

Atmosphere

- · Airplanes for Contrail activity
- Clouds ppt
- Cloud Identification Guide
- Cool Clouds for "Kids" of All Ages
- GLOBE Atmosphere Investigation
- GLOBE Cloud Chart
- <u>GLOBE Contrail Chart</u>
- Kids' Crossing
- NASA: Make a Cloud Mobile
- NASA: My NASA Data
- S'COOL Students' Cloud Observations Online
- Take a Cloud Walk
- Thermometer poem
- Weather on the Move Elementary / Weather on the Move Middle
- Wonders in Weather

Earth As a System

- Earth Pictures
- Earth System Match Game Suggestions for Earth System cards
- Earth System song
- GLOBE Earth As a System Investigation
- Globe foldable

Workshops & Training Sessions

GLOBE Teacher Training Workshops

Connect your students to an international network of students, teachers and scientists, learning more about our shared environment. For a school to fully participate in the GLOBE Program, at least one teacher must be trained in the GLOBE science measurement protocols and education activities by attending a GLOBE Teacher Workshop.

Click on the links below for more information about a GLOBE Workshop in your area - or contact your local GLOBE Partner.

Advanced Filter



Click a workshop number to view on map

	Location Name	Address	Date ^	Investigation Areas	Audience	Restrictions
1	Weizmann Institute	Rehovot, Israel	10/01/2014 - 03/18/2015	 Atmosphere and Climate Earth As a System Hydrology Land Cover 	Teachers	

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e-Training

Overview

Modules

.exe files



Introduction to GLOBE

The "Introduction to GLOBE" module provides an overview of The GLOBE Program and how various roles, such as teachers and scientists, are involved in the program.

Search



Introduction to GLOBE for Scientists

The "Introduction to GLOBE for Scientists" module provides an overview of The GLOBE Program and how scientists are involved in the program.



Introduction to the Atmosphere Investigation

The "Introduction to the Atmosphere Investigation" module introduces the GLOBE Atmosphere Investigation, including fundamental science content and classroom resources available to support you in guiding your students through investigating the atmosphere.



Clouds

The "Clouds" module provides details about GLOBE's Cloud Protocols, including tools and tips for cloud identification, fundamental science content and classroom resources to support you in guiding your students through cloud observation.

Web Tutorials

Overview



Welcome to the Web Tutorial section of the GLOBE website. The resources on these pages are here to help you understand and work with the various parts of the GLOBE website.

The GLOBE website is made up of several specialized areas that allow you to engage, collaborate, educate, as well as enter and interact with scientific data. Each area is listed on the right. Click on an item to see a video and/or download step by step guides. Tutorials cover the main areas of the site including:

- The main GLOBE website, which allows you to engage in the GLOBE Program, collaborate, and access training, and educational resources.
- The Data Entry System, which allows you to enter Scientific Data that Schools organizations have collected.
- The Visualization and Data Retrieval System which provides tools for interacting, with and retrieving scientific data that has been entered by trained community members that belong to school organizations.

Here are some additional quick links to useful documents:

All Users

· Navigating the new Data Entry Tools [Power Point File Download]

GLOBE Website Training



1. Setting up Your Data Site [10:38]



2. Entering Measurement Data [5:20]



3. Retrieve and Visualize Your Data [16:22]



4. Setting up Your GLOBE Account [7:37]



5. Creating Student Accounts [12:14]

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